

**Notice of Allowability**

Application No.

09/944,034

Examiner

Alonzo Chambliss

Applicant(s)

WING ET AL.

Art Unit

2827

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment A filed on 7/31/03 and interview summary filed on 9/20/03.
2. ☒ The allowed claim(s) is/are 1-25 and 56.
3. ☒ The drawings filed on 30 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
- (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
- (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- 1 ☒ Notice of References Cited (PTO-892)
- 3 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 5 ☐ Information Disclosure Statements (PTO-1449), Paper No. \_\_\_\_\_.
- 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 2 ☐ Notice of Informal Patent Application (PTO-152)
- 4 ☒ Interview Summary (PTO-413), Paper No. 6.
- 6 ☒ Examiner's Amendment/Comment
- 8 ☒ Examiner's Statement of Reasons for Allowance
- 9 ☐ Other

### DETAILED ACTION

1. Amendment A filed on 7/31/03 has been fully considered and made of record in Paper No. 5.

### EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Stephen A. Gratton on September 19, 2003.

3. The application has been amended as follow:

#### IN CLAIMS:

Cancel claim 3.

In claim 1, line 8, after " nest on the base " insert -- wherein the base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest --;

In claim 9, line 9, after " using the locator pins " insert -- wherein the alignment base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest --;

In claim 14, line 8, after " on the alignment base " insert -- wherein the alignment base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest --;

In claim 56, line 11, after " engage the locator openings " insert -- wherein the base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest --.

#### **Allowable Subject Matter**

4. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of a base configured to hold a nest, wherein the base has a plurality of locator pins engage locator openings on a substrate with semiconductor components. Placing the nest on the base, wherein the base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest. Placing the substrate on the nest and aligning the substrate using the locator pins. Removing the nest from the base and sawing the substrate on the nest into separate components in claim 1.

A nest configured to hold a substrate with a plurality of locator openings. An alignment base having a plurality of locator pins configured to engage the locator pins. Placing the nest on the alignment base and aligning the substrate on the nest using the locator pins, wherein the alignment base comprises a plurality of mounting studs configured to engage a plurality mounting openings on the nest. Removing the nest from the alignment base and a sawing base configured to hold the nest and the

substrate for sawing. Placing the nest on the sawing base and sawing the substrate into separate components in claims 9 and 14.

A substrate having a plurality of locator openings, wherein the substrate is held by a nest having a plurality of openings. A clamping mechanism attachable to the nest for clamping the substrate to the nest. An alignment base with a plurality of locator pins configured to engage the locator openings. Placing the nest on the alignment base with the locator pins projecting from the openings in the nest and placing the substrate on the nest with the locator pins engaging the locator openings. Removing the nest from the alignment base and providing a sawing base comprising a vacuum opening configured to apply a vacuum to the substrate held on the nest. Applying the vacuum through the sawing base to the substrate and removing the clamping mechanism from the nest. Sawing the substrate into separate components in claim 19.

A base and a nest configured to hold a substrate with a plurality of locator openings and semiconductor components. A clamping mechanism configured to hold the component on the base and a plurality of locator pins on the clamping mechanism configured to engage the locator openings. Attaching the clamping mechanism to the nest and aligning the substrate on the nest during the attaching using the locator pins. A sawing base configured to hold the nest and the substrate for sawing. Removing the nest from the base and placing the nest on the sawing base and sawing the substrate into separate components in claim 56.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

AC/September 20, 2003

  
Alonzo Chambliss  
Patent Examiner  
Art Unit 2827